

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 50193-184	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/US2004/020738	International filing date (day/month/year) 29/06/2004	(Earliest) Priority Date (day/month/year) 02/07/2003
Applicant MERCK & CO., INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the drawings,

a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

b. ☐ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2004/020738

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D413/14 C07D413/06 A61K31/422 A61P31/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 03/027083 A (KYORIN SEIYAKU KK ; FUKUDA YASUMICHI (JP); MERCK & CO INC (US); HAMMON) 3 April 2003 (2003-04-03) the whole document	1-11
Y	----- WO 01/81350 A (ASTRAZENECA UK LTD ; BETTS MICHAEL JOHN (GB); GRIFFIN DAVID ALAN (GB);) 1 November 2001 (2001-11-01) cited in the application the whole document	1-11
Y	----- DATABASE CAPLUS CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; XP002303263 retrieved from CAPLUS accession no. 2003:576097 Database accession no. 139:85332 abstract	1-11
	----- -/--	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

29 October 2004

Date of mailing of the international search report

16/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lauro, P

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/020738

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	<p>& CN 1 355 165 A (INSTITUTE OF MEDICAL AND BIOLOGICAL TECHNOLOGY) 26 June 2002 (2002-06-26) * see RN 556801-57-1, RN 556801-62-8 *</p> <p>-----</p> <p>WO 2004/033451 A (GORDEEV MIKHAIL FEDOR ; RENSLO ADAM (US); UPJOHN CO (US); PATEL DINESH) 22 April 2004 (2004-04-22) the whole document</p> <p>-----</p>	1-11

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/020738

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03027083	A	03-04-2003	CA 2443410 A1	03-04-2003
			EP 1385834 A1	04-02-2004
			WO 03027083 A1	03-04-2003
			US 2003125367 A1	03-07-2003
<hr/>				
WO 0181350	A	01-11-2001	AT 268778 T	15-06-2004
			AU 4863601 A	07-11-2001
			BR 0110240 A	07-01-2003
			CA 2405349 A1	01-11-2001
			CN 1437603 T	20-08-2003
			CZ 20023527 A3	15-01-2003
			DE 60103754 D1	15-07-2004
			DK 1286998 T3	06-09-2004
			EE 200200598 A	15-04-2004
			EP 1286998 A1	05-03-2003
			WO 0181350 A1	01-11-2001
			HU 0300416 A2	28-06-2003
			JP 2003531211 T	21-10-2003
			NO 20025091 A	09-12-2002
			NZ 521765 A	28-05-2004
			PL 358326 A1	09-08-2004
			US 2003216373 A1	20-11-2003
			ZA 200208187 A	11-02-2004
<hr/>				
CN 1355165	A	26-06-2002	NONE	
<hr/>				
WO 2004033451	A	22-04-2004	WO 2004033451 A1	22-04-2004
			US 2004127530 A1	01-07-2004
<hr/>				